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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
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2292 7590 10/19/2007 BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747			EXAM	EXAMINER	
		* 1	MILIA, N	MILIA, MARK R	
			ART UNIT	PAPER NUMBER	
			2625		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

-	Application No.	Applicant(s)			
	09/963,373	NAKAMURA, HIROAKI			
Office Action Summary	Examiner	Art Unit			
	Mark R. Milia	2625			
The MAILING DATE of this communication appearing for Reply	ppears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be tided to the company of the company o	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status		•			
1)⊠ Responsive to communication(s) filed on <u>08</u> 2a)⊠ This action is FINAL . 2b)□ The 3)□ Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matters, pr				
Disposition of Claims					
4) ⊠ Claim(s) 1-21 is/are pending in the application 4a) Of the above claim(s) is/are withdrest is/are allowed. 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-21 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and	rawn from consideration.				
Application Papers					
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction. The oath or declaration is objected to by the	ccepted or b) objected to by the ne drawing(s) be held in abeyance. Section is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:	Date			

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DETAILED ACTION

Response to Amendment

1. Applicant's amendment was received on 6/8/07 and has been entered and made of record. Currently, claims 1-21 are pending.

Claim Rejections - 35 USC § 112

2. Applicant's amendment to claims 1 and 17 have overcome the rejection set forth in the previous Office Action. Therefore the rejection has been withdrawn.

Response to Arguments

3. Applicant's arguments filed 6/8/07 have been fully considered but they are not persuasive.

Applicant asserts that Gu (US 5,874,988) fails to teach or suggest the finished-state-predicting image (the image processed based on the image processing conditions), displayed on the display, being compared with the selected reference image. The examiner respectfully disagrees as Gu does disclose such a feature.

Particularly, Gu states a source image (finished-state-predicting image) can be provided from a plurality of devices, such as scanner, camera, video signal digitizer, etc. The

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image source executes some image processing in capturing and providing the image to the image processing system 120. One example of an image source given by Gu is a digital storage device storing digitized video signals. One of ordinary skill in the art would understand that a digital image captured from a video signal would have some kind of image processing performed and therefore would not be an unprocessed source image. Gu further states that the image processing system 120 analyzes the source image to attain image parameters related to color space or other factors. The source image an the associated parameters are then compared to a reference image with known parameters and adjustments are to the source image parameters so as to match the source image to the reference image so that the parameters match. Thus, Gu teaches the finished-state-predicting image (the image processed based on the image processing conditions), displayed on the display, being compared with the selected reference image.

Claim Rejections - 35 USC § 102

- 4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- Claims 1-4, 6-13, and 15-21 are rejected under 35 U.S.C. 102(b) as being 5. anticipated by U.S. Patent No. 5874988 to Gu.

Regarding claim 1, Gu discloses an image processing apparatus comprising a display (see Fig. 1), an image processing unit for subjecting an image supplied from an

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image data supply source to image processing based on image processing conditions, thereby obtaining a finished-state-predicting image (see Fig. 1, column 3 line 54-column 4 line 3, column 12 lines 24-35, and column 20 lines 24-38), a memory for storing at least one image (see Figs. 1 "150" and column 9 lines 42-48), a registration unit for registering said at least one reference in the memory as a reference image (see column 4 lines 13-24 and 55-61, column 12 lines 24-48, column 14 lines 59-65, and column 17 lines 5-11 and 62-65), a display unit for selecting at least one reference image from said at least one reference image and simultaneously displaying on said display said at least one selected reference image together with said finished-state- predicting image of the image processed by said image processing unit (see Fig. 1, column 5 lines 11-19, column 9 lines 19-22, column 18 lines 20-51, and column 20 line 55-column 21 line 3), and a first adjustment unit for adjusting said image processing conditions in said image

processing unit based on an operator's judgment which is done by comparing said

finished-state-predicting image displayed on said display with said at least one selected

reference image displayed on said display in such a manner that an image processing

conditions matches to said at least one selected reference image (see column 3 line 62-

column 4 line 33, column 15 lines 56-61, column 17 line 62-column 18 line 51, and

result of said finished-state-predicting image using adjusted image processing

column 20 line 22-column 21 line 17).

Regarding claim 17, Gu discloses an image processing apparatus comprising: a display having a single display screen (see Fig. 1, column 5 lines 11-19, column 9 lines 19-22, column 18 lines 20-51, and column 20 line 55-column 21 line 3), an image

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processing unit for subjecting an image supplied from an image data supply source to image processing based on image processing conditions (see Fig. 1, column 3 line 54column 4 line 3, column 12 lines 24-35, and column 20 lines 24-38), a manipulation system (see Figs. 1, column 3 line 62-column 4 line 33, column 15 lines 56-61, column 17 line 62-column 18 line 51, and column 20 line 22-column 21 line 17), a reference image display controller having a memory for storing at least one image and a registration unit for registering said at least one reference image in the memory, wherein the manipulation system selects at least one image as a reference image from said at least one reference image and simultaneously displaying on said single display screen said at least one selected reference image together with a finished-state-predicting image of the image, supplied from the image data supply, processed by said image processing unit (see Fig. 1, column 4 lines 13-24 and 55-61, column 5 lines 11-19, column 9 lines 19-22 and 42-48, column 12 lines 24-48, column 14 lines 59-65, column 17 lines 5-11 and 62-65 column 18 lines 20-51, and column 20 line 55-column 21 line 3), and a condition setting section (see Fig. 1 and column 12 lines 24-48), said condition setting section including a setup subsection for setting image processing conditions and for calculating image characteristic amounts for the image (see Fig. 1 column 7 lines 25-35, column 9 lines 49-54, and column 12 lines 24-48), a key adjustment subsection for verifying the image with the at least one reference image (see column 12 lines 24-48 and column 17 lines 5-11), and a parameter coordinating subsection for receiving image processing conditions from the setup subsection, said condition setting section adjusting said image processing conditions in said image processing unit by using said at least

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one selected reference image displayed on said display and said finished-state-predicting image in such a manner that an image processing result of said finished-state-predicting image using adjusted image processing conditions matches to said at least one selected reference image (see column 3 line 62-column 4 line 33, column 15 lines 56-61, column 17 line 62-column 18 line 51, and column 20 line 22-column 21 line 17).

Regarding claim 2, Gu further discloses a moving unit for moving said second reference image displayed on said display (see column 9 lines 19-22 and column 18 lines 32-51).

Regarding claim 3, Gu further discloses at least one of a reference image enlargement/reduction unit for enlarging or reducing said second reference image and a reference image partial display unit for partially displaying said second reference image (see column 18 lines 32-51).

Regarding claim 4, Gu further discloses an output unit for outputting said selected reference image stored in said memory as a hard copy and a second adjustment unit for adjusting color and density of said selected reference image stored in said memory (see Fig. 1 "130", column 7 lines 28-35, column 12 lines 24-48, column 15 lines 3-44, and column 15 line 66-column 17 line 11).

Regarding claim 6, Gu further discloses wherein said image processing unit also processes said finished-state-predicting image by using image processing conditions of said at least one reference image registered the memory (see column 3 line 62-column

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4 line 33, column 15 lines 56-61, column 17 line 62-column 18 line 51, and column 20 line 22-column 21 line 17).

Regarding claim 7, Gu further discloses wherein a color and a density residual of a calibration of an output device to which the image processed in said image processing unit is output are reflected on each of said at least one and said selected reference images (see column 15 lines 3-44, column 15 line 66-column 17 line 11, and column 20 line 55-column 21 line 18).

Regarding claim 8, Gu further discloses wherein an output device to which the image processed in said image processing unit is output and an output form used are selectable and said first adjustment unit modifies image processing conditions for said finished-state- predicting image in accordance with the output device and output form selected (see column 7 line 16-column 8 line 67).

Regarding claim 9, Gu further discloses wherein said registration unit registers image processing conditions for said finished-state-predicting image as image processing conditions for said at least one reference image (see column 3 line 62-column 4 line 33, column 15 lines 56-61, column 17 line 62-column 18 line 51, and column 20 line 22-column 21 line 17).

Regarding claim 10, Gu further discloses wherein said display unit displays said second reference image and said finished-state-predicting image in a partially overlapped state on said display and indicates by color or density a magnitude of at least one of a color difference and a difference in an image structure index between the second reference image and the finished-state- predicting image in the partially

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overlapped state (see Fig. 1, column 5 lines 11-19, column 9 lines 19-22, column 18 lines 20-51, and column 20 line 55-column 21 line 3).

Regarding claim 11, Gu further discloses a unit for designating specific regions in said second reference image and said finished-state-predicting image displayed on said display, wherein said display unit indicates by color or density a magnitude of at least one of a color difference and a difference in an image structure index between said designated regions (see column 15 lines 19-63).

Regarding claim 12, Gu further discloses wherein said image structure index is a power spectrum (see column 8 lines 11-19).

Regarding claim 13, Gu further discloses wherein said memory stores said at least one reference image by colorimetric values (see column 8 lines 11-19, column 9 lines 55-58, column 12 lines 24-43, and column 13 lines 1-13).

Regarding claim 15, Gu further discloses wherein said memory stores said at least one reference image by values on a standard color space (see column 4 lines 13-18).

Regarding claim 16, Gu further discloses wherein said standard color space is a sRGB trichromatic system (see column 8 lines 11-19, column 9 lines 55-58, column 12 lines 24-43, and column 13 lines 1-13).

Regarding claim 18, Gu further discloses wherein the adjusted image processing conditions are used for the image processing by the image processing unit, thereby obtaining a new finished-state-predicting image, and the display control unit displays the new finished-state-predicting image and said at least one selected reference image on

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said display (see column 3 line 62-column 4 line 33, column 15 lines 56-61, column 17 line 62-column 18 line 51, and column 20 line 22-column 21 line 17).

Regarding claim 19, Gu further discloses wherein said at least one selected reference image is an image subjected to image processing of a first original image prior to the registering and the first original image is different from a second original image of the image to be processed in the image processing unit (see column 3 line 62-column 4 line 33, column 15 line 66-column 18 line 51, and column 20 line 22-column 21 line 17)

Regarding claim 20, Gu further discloses wherein said at least one selected reference image is an image subjected to image processing prior to the registering and is different from the image to be processed and supplied from the image data supply source (see column 3 line 62-column 4 line 33, column 15 line 66-column 18 line 51, and column 20 line 22-column 21 line 17).

Regarding claim 21, Gu further discloses wherein said at least one selected reference image and said finished-state-predicting image are different from each other in image content therein (see column 3 line 62-column 4 line 10, and column 12 lines 24-48, reference shows that the images can be any kind, referring to content, of image).

Claim Rejections - 35 USC § 103

6. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

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7. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gu as applied to claim 1 above, and further in view of Cookingham (US 6658139).

Gu discloses a registration unit for registering reference images and a display for displaying the reference images (see Fig. 1, column 4 lines 13-24 and 55-61, column 12 lines 24-48, column 14 lines 59-65, and column 17 lines 5-11 and 62-65).

Gu does not disclose expressly wherein said registration unit registers a plurality of reference images for each group corresponding to an image scene and said display unit displays said plurality of reference images for said each group.

Cookingham discloses wherein said registration unit registers a plurality of reference images for each group corresponding to an image scene and said display unit displays said plurality of reference images for said each group (see column 4 lines 26-29 and column 6 lines 24-42).

Gu & Cookingham are combinable because they are from the same field of endeavor, processing and comparison of digital images.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the registration of reference images into groups, as described by Cookingham, with the system of Gu.

The suggestion/motivation for doing so would have been to provide enhanced comparison and increase the efficiency of selecting a reference image by grouping the images based on similar image characteristics.

Therefore, it would have been obvious to combine Cookingham with Gu to obtain the invention as specified in claim 5.

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8. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gu as applied to claim 13 above, and further in view of Inoue (US 5844542).

Gu discloses wherein said colormetric values are RGB values (see column 8 lines 11-19, column 9 lines 55-58, column 12 lines 24-43, and column 13 lines 1-13).

Gu does not disclose expressly wherein said colorimetric values are XYZ values in a CIE1931 standard colorimetric system or L*a*b* values in a CIE1976L*a*b* perceived color space.

Inoue discloses wherein said colorimetric values are XYZ values in a CIE1931 standard colorimetric system or L*a*b* values in a CIE1976L*a*b* perceived color space (see column 5 lines 6-15).

Gu & Inoue are combinable because they are from the same field of endeavor, processing and comparison of digital images.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the XYZ or L*a*b* colormetric values, as described by Inoue, with the system of Gu.

The suggestion/motivation for doing so would have been provide for manipulation of color values is a plurality of color spaces to increase overall efficiency. Gu states that histograms can be displayed in RGB or other color spaces and Inoue shows other color spaces that are well known and commonly used in the art and therefore it would have been obvious to one of ordinary skill in the art to substitute XYZ or L*a*b* colormetric values for RGB values.

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Therefore, it would have been obvious to combine Inoue with Gu to obtain the invention as specified in claim 14.

Conclusion

9. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark R. Milia whose telephone number is (571) 272-7408. The examiner can normally be reached M-F 8:00am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Twyler M. Lamb can be reached at (571) 272-7406. The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

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Mark R. Milia Examiner

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MRM

SUPERVISORY PATENT EXAMINER